

Amendments to the Claims

The listing of claims below replaces all prior versions and listings of claims.

Listing of Claims

Claim 1-18 (cancelled).

Claim 19 (currently amended): An optical device having a back facet and a front facet opposite to each other, said device including:

- a laser adapted to emit light;
- a modulator having an input end and an output end, respectively, and adapted to receive and modulate light emitted from said laser and to output modulated light at said modulator output end; and
- a window region arranged between said modulator output end and said device front facet;
- said device being further arranged such that modulated light output from said modulator is transmitted through said window region and is output from said device through said device front facet, wherein
- said device is arranged such that the modulated light output from said modulator is propagating essentially in a direction, ~~which~~ that is angled with respect to the a normal of said device front facet; and
- said modulator output end is tapered; and
- said front facet is angled with respect to said back facet such that said modulated light is output from the device via said front facet in a direction substantially parallel with a normal of said back facet.

Claim 20 (original): The optical device as claimed in claim 19 wherein the angle between the propagation direction of the light and the normal of said front facet is at least 2°, preferably at least 5°, more preferably at least 8°, and most preferably around 8°.

Claim 21 (original): The optical device as claimed in claim 19 wherein the width of said modulator output end is tapered.

Claim 22 (original): The optical device as claimed in claim 19 wherein the thickness of said modulator output end is tapered.

Claim 23 (original): The optical device as claimed in claim 19 wherein the tapered modulator output end section is between 10 and 1000 microns long, and preferably between 20 and 50 microns long.

Claim 24 (original): The optical device as claimed in claim 19 wherein said front facet is provided with an AR coating.

Claim 25 (original): The optical device as claimed in claim 19 wherein the device is a monolithically integrated semiconductor device.

Claim 26 (original): The optical device as claimed in claim 19 wherein said modulator is bent.

Claim 27 (original): The optical device as claimed in claim 19 wherein said modulator is angled with respect to the normal of said front facet.

Claim 28 (original): The optical device as claimed in claim 19 wherein said front facet is angled with respect to said back facet.

Claim 29 (withdrawn): A method for the fabrication of an optical device comprising the steps of:

- providing a substrate having a back facet and a front facet opposite to each other;
- forming a laser in or on said substrate, said laser being adapted to emit light essentially perpendicular to said back facet;
- forming a modulator with an input end and an output end, respectively, in or on said substrate, said modulator being adapted to receive and modulate light emitted from said laser and to output modulated light at said modulator output end;

- forming a window region between said modulator output end and said device front facet such that modulated light output from said modulator can be transmitted through said window region and be output from said device through said device front facet; and

- forming the modulator with a bend such that the modulated light output from said modulator is propagating essentially in a direction, which is angled with respect to the normal of said device front facet.

Claim 30 (withdrawn): A method for the fabrication of an optical device comprising the steps of:

- providing a substrate having a back facet and a front facet opposite to each other;

- forming a laser in or on said substrate, said laser being adapted to emit light;

- forming a modulator with an input end and an output end, respectively, in or on said substrate, said modulator being adapted to receive and modulate light emitted from said laser and to output modulated light at said modulator output end;

- forming a window region between said modulator output end and said device front facet such that modulated light output from said modulator can be transmitted through said window region and be output from said device through said device front facet;

- forming the substrate, the laser, the modulator and the window region such that the modulated light output from said modulator is propagating essentially in a direction, which is angled with respect to the normal of said device front facet; and

- forming the modulator output end tapered.

Claim 31 (previously presented): The optical device of claim 19, wherein said modulator is bent to provide said angled direction of the modulated light.

Claim 32 (previously presented): The optical device of claim 19, wherein said modulator is angled with respect to the normal of said front facet to provide said angled direction of the modulated light.

Claim 33 (canceled):

Claim 34 (previously presented): The optical device of claim 32, wherein said modulator is arranged diagonally in said optical device.

Claim 35 (previously presented): The optical device of claim 34, wherein said modulator is straight, and said front facet is angled with respect to said back facet to provide said angled direction of the modulated light.

Claim 36 (currently amended): The optical device of claim 19 ~~35~~, wherein said angled front facet is dry etched.

Claim 37 (new): The optical device of claim 19, wherein said angled front facet is etched.

Claim 38 (new): The optical device of claim 19, wherein side edges of said device are substantially parallel with a normal of the back facet.